



**TROPICAL CYCLONE BULLETIN NO. 11**

**Typhoon BETTY (MAWAR)**

Issued at 5:00 PM, 29 May 2023

Valid for broadcast until the next bulletin at 11:00 PM today.

**TYPHOON BETTY CONTINUES TO DECELERATE AS IT MOVES NORTH NORTHWESTWARD OVER THE WATERS EAST OF CAGAYAN.**

<b>Location of Center (4:00 PM)</b>	
The center of the eye of Typhoon BETTY was estimated based on all available data at <b>445 km East of Calayan, Cagayan (19.5°N, 125.7°E)</b>	
<b>Intensity</b>	
Maximum sustained winds of <b>155 km/h</b> near the center, gustiness of up to <b>190 km/h</b> , and central pressure of <b>950 hPa</b>	
<b>Present Movement</b>	
<b>North northwestward at 10 km/h</b>	
<b>Extent of Tropical Cyclone Winds</b>	
<b>Strong to typhoon-force winds</b> extend outwards up to <b>770 km</b> from the center	

**TRACK AND INTENSITY FORECAST**

Date and Time	Center Position		Location	Intensity		Movement dir. and speed (km/h)
	Lat. (°N)	Lon. (°E)		MSW (km/h)	Cat.	
<b>12-Hour Forecast</b> 2:00 AM 29 May 2023	20.2	125.1	330 km East of Basco, Batanes	150	TY	NW 10
<b>24-Hour Forecast</b> 2:00 PM 30 May 2023	20.7	124.5	275 km East of Itbayat, Batanes	150	TY	NW Slowly
<b>36-Hour Forecast</b> 2:00 AM 30 May 2023	21.1	124.1	240 km East of Itbayat, Batanes	150	TY	NW Slowly
<b>48-Hour Forecast</b> 2:00 PM 31 May 2023	21.8	123.9	240 km East Northeast of Itbayat, Batanes	150	TY	NNW Slowly
<b>60-Hour Forecast</b> 2:00 AM 31 May 2023	22.6	123.9	295 km Northeast of Itbayat, Batanes	140	TY	N Slowly
<b>72-Hour Forecast</b> 2:00 PM 01 June 2023	23.8	124.1	410 km Northeast of Itbayat, Batanes	130	TY	N 10
<b>96-Hour Forecast</b> 2:00 PM 02 June 2023	25.9	125.4	675 km North Northeast of Itbayat, Batanes (OUTSIDE PAR)	110	STS	NNE 10
<b>120-Hour Forecast</b> 2:00 PM 03 June 2023	27.1	127.2	890 km Northeast of Extreme Northern Luzon (OUTSIDE PAR)	85	TS	NE 10

Prepared by: **JEMB**

Checked by: **SFD**



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TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT			
TCWS No.	Luzon	Visayas	Mindanao
<b>2</b> Wind threat: <b>Gale-force winds</b>	<b>Batanes and the northeastern portion of Cagayan (Santa Ana, Gonzaga) including Babuyan Islands</b>	-	-
	Warning lead time: <b>24 hours</b> Range of wind speeds: <b>62 to 88 km/h (Beaufort 8 to 9)</b> Potential impacts of winds: <b>Minor to moderate threat to life and property</b>		
<b>1</b> Wind threat: <b>Strong winds</b>	<b>The rest of mainland Cagayan, Isabela, Apayao, Ilocos Norte, Abra, Kalinga, Mountain Province, Ifugao, the northern and central portions of Aurora (Dilasag, Casiguran, Dinalungan, Dipaculao, Baler), Quirino, the northeastern portion of Nueva Vizcaya (Kasibu, Quezon, Solano, Bagabag, Diadi, Villaverde, Bayombong, Ambaguio), the northern portion of Catanduanes (Caramoran, Viga, Gigmoto, Panganiban, Bagamanoc, Pandan), the northeastern portion of Camarines Sur (Caramoan, Garchitorena, Lagonoy, Tinambac, Siruma), Pollilo Islands, the northern portion of Camarines Norte (Vinzons, Paracale, Jose Panganiban, Capalonga, Talisay, Daet, Mercedes, Basud) and the northern and central portions of Ilocos Sur (Gregorio del Pilar, Magsingal, San Esteban, Banayoyo, Cervantes, Burgos, Santiago, San Vicente, Santa Catalina, Lidlidda, Nagbukel, Sinit, Sigay, San Ildefonso, Galimuyod, Quirino, City of Vigan, San Emilio, Cabugao, Caoayan, San Juan, Santa, Bantay, Santo Domingo, Santa Maria, Narvacan, Salcedo, City of Candon)</b>	-	-
	Warning lead time: <b>36 hours</b> Range of wind speeds: <b>39 to 61 km/h (Beaufort 6 to 7)</b> Potential impacts of winds: <b>Minimal to minor threat to life and property</b>		

HAZARDS AFFECTING LAND AREAS
<b>Heavy Rainfall Outlook</b>
<b>Forecast accumulated rainfall from today to tomorrow afternoon</b>
<ul style="list-style-type: none"> <li>• <b>50-100 mm:</b> Batanes, eastern portion of Babuyan Islands, Ilocos Norte, northern portion of Ilocos Sur, northern portion of Apayao and the northeastern portion of mainland Cagayan</li> </ul>
<b>Forecast accumulated rainfall from tomorrow afternoon to Wednesday afternoon</b>
<ul style="list-style-type: none"> <li>• <b>100-200 mm:</b> Ilocos Norte, Ilocos Sur, La Union, Abra, Benguet, Batanes and the eastern portion of Babuyan Islands</li> <li>• <b>50-100 mm:</b> The rest of Babuyan Islands, Apayao, and the northern portion of mainland Cagayan</li> </ul>
<b>Forecast accumulated rainfall from Wednesday afternoon to Thursday afternoon</b>
<ul style="list-style-type: none"> <li>• <b>100-200 mm:</b> Batanes, Ilocos Sur, La Union, and the western portions of Abra and Benguet</li> <li>• <b>50-100 mm:</b> Babuyan Islands, the rest of Ilocos Region, Abra, and the rest of Abra and Benguet</li> </ul>
<b>Forecast accumulated rainfall from Thursday afternoon to Friday afternoon</b>
<ul style="list-style-type: none"> <li>• <b>50-100 mm:</b> Batanes, Babuyan Islands, and Ilocos Region</li> </ul>

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**HAZARDS AFFECTING LAND AREAS**

**Heavy Rainfall Outlook (continued...)**

Under these conditions, **flooding and rain-induced landslides are likely**, especially in areas that are highly or very highly susceptible to these hazard as identified in hazard maps and in localities that experienced considerable amounts of rainfall for the past several days.

Due to the Southwest Monsoon, occasional to monsoon rains over the western portions of Southern Luzon and Visayas. For more information, refer to the **24-Hour Public Weather Forecast** issued at 4:00 PM today and **Weather Advisory #1 for Southwest Monsoon** issued at 11:00 AM today.

**Severe Winds**

- Minor to moderate impacts caused by gale-force winds are likely within the areas where Wind Signal No. 2 is hoisted. Minimal to minor impacts from strong winds (i.e., strong breeze to near gale strength) are possible within any of the areas where Wind Signal No.1 is currently in effect.
- Occasional gusts are possible in the next 24 hours due to the Southwest Monsoon over localities in the eastern portion of Central Luzon, eastern and southern portions of Southern Luzon that are not under any Wind Signal, and most of Visayas. Such conditions are more likely in coastal and exposed upland/mountainous areas. The western portion of Luzon may experience similar conditions beginning tomorrow or Wednesday.

**HAZARDS AFFECTING COASTAL WATERS**

Under the influence of BETTY, a **marine gale warning remains in effect** over the northern and eastern seaboard of Northern Luzon, eastern seaboard of Central Luzon, the eastern and southern seaboard of Southern Luzon, the eastern and western seaboard of Visayas, and the eastern seaboard of Mindanao. For more information, refer to **Gale Warning #5** issued at 5:00 PM today.

**TRACK AND INTENSITY OUTLOOK**

- On the track forecast, BETTY will move generally northwestward slowly today and may become slow-moving or almost stationary from tomorrow to Wednesday while over the waters east of Batanes. Afterwards, the typhoon will turn north northeastward or northeastward on late Wednesday or Thursday and gradually accelerate towards the waters east of Taiwan and the southern portion of Ryukyu Islands. BETTY may exit the Philippine Area of Responsibility (PAR) on Friday.
- This typhoon is forecast to steadily weaken over the next five days due to cooler ocean waters (caused by upwelling of cooler waters in its wake) and dry air intrusion. BETTY may be downgraded into a severe tropical storm on late Thursday or early Friday and into a tropical storm on late Friday or early Saturday.

Considering these developments, the public and disaster risk reduction and management offices concerned are advised to take all necessary measures to protect life and property. Persons living in areas identified to be highly or very highly susceptible to these hazards are advised to follow evacuation and other instructions from local officials. **For heavy rainfall warnings, thunderstorm/rainfall advisories, and other severe weather information specific to your area, please monitor products issued by your local PAGASA Regional Services Division.**

The next tropical cyclone bulletin will be issued at 11:00 PM today.

**DOST-PAGASA**

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Checked by:   
**SFD**